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Entry Information General Description References Comments Links K

General information

Entry from: SWALL

Entry name

088927

Annotation update TrEMBLrel. 25, 1-SEP-2003

10116

(SPTR)

Accession number **088927**, <u>088924</u>, <u>088928</u>, <u>088929</u>, <u>088926</u>, <u>088925</u>

Created

TrEMBLrel. 05, 1-JAN-1998

Sequence update TrEMBLrel. 05, 1-JAN-1998

Launch analysis tool:

Description and origin of the Protein

BlastP

Entry Options

Launch

Description Organism source Calcium-independent alpha-latrotoxin receptor 3 precursor (Rattus norvegicus (Rat).

Link to related

information:

Taxonomy

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele

Muridae; Murinae; Rattus.

Link

NCBI TaxID

Save entry:

Save

References

View:

Printer Friendly

[1] Sugita, S., Ichtchenko, K., Khvotchev, M., Suedhof, T.C., alpha-Latrotoxin receptor CIRL/latrophilin 1 (CL1) def linked receptors. G-protein coupling not required for tr

(1998) J. Biol. Chem. 273:32715-32724

Position SEQUENCE FROM N.A.

Medline 99047651

PubMed 9830014

Comments

FUNCTION

PERFORMS A GENERAL AND UBIQUITOUS FUNCTIO

SIGNALING.

SUBUNIT

HETERODIMER OF A 120 AND A 85 KDA SUBUNITS

PROTEOLYTIC CLEAVAGE OF THE PRECURSOR.

SUBCELLULAR LOCATION

INTEGRAL MEMBRANE PROTEIN.

Event=Alternative splicing; Named isoforms=6; Nam

ALTERNATIVE PRODUCTS

Name=CL3AA; IsoId=O88927-2; Sequence=VSP 0 Sequence=VSP_050431, VSP_050432, VSP_050433 Sequence=VSP_050431, VSP_050434, VSP_050435 Sequence=VSP_050432, VSP_050433; Name=CL3B

VSP_050435;

BRAIN.

TISSUE SPECIFICITY

PTM

CLEAVED INTO A 120 KDA HYDROPHILIC GLYCOSY LEAST PART OF ALPHA-LATROTOXIN-BINDING SITE

REMAIN STILL TIGHTLY BOUND TO EACH OTHER AF

SIMILARITY

BELONGS TO FAMILY 2 OF G-PROTEIN COUPLED RE

SIMILARITY

SOME, TO NEURONAL OLFACTOMEDIN-RELATED ER

Database cross-references

AF081157; AAC62663.1; -.

AF081154; AAC62660.1; -.

AF081158; AAC62664.1; -.

EMBL

AF081159; AAC62665.1; -.

AF081156; AAC62662.1; -.

AF081155; AAC62661.1; -.

PIR T17198; T17198.

GO:0016021; C:integral to membrane; IEA.

GO:0004930; F:G-protein coupled receptor activity; IEA. GO

GO:0005529; F:sugar binding; IEA.

GO:0007218; P:neuropeptide signaling pathway; IEA.

IPR000922; Gal_lectin.

IPR000832; GPCR_secretin.

IPR001879; hormn_receptor. InterPro

IPR003334; Latrophilin.

IPR003112; Olfac_like.

IPR000203; PKD_cys_rich.

PF00002; 7tm 2; 1.

PF02140; Gal_Lectin; 1.

PF01825; GPS; 1. Pfam

PF02793; HRM; 1.

PF02354; Latrophilin; 1.

PF02191; OLF; 1.

PRINTS PR00249; GPCRSECRETIN.

ProDom PD005612; Gal_lectin; 1.

SM00303; GPS; 1. **SMART**

SM00284; OLF; 1.

PS50221; GPS; 1.

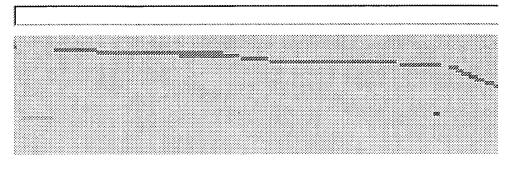
PS50227; G_PROTEIN_RECEP_F2_3; 1. **PROSITE**

<u>PS50261</u>; G_PROTEIN_RECEP_F2_4; 1.

PS50228; SUEL_LECTIN; 1.

Keywords

G-protein coupled receptor; Transmembrane; Glycoprotein; Signal; Alter Features



Key	Begin	End	Length	Description
SIGNAL			0	POTENTIAL.
CHAIN			0	CALCIUM-INDEPENDENT ALPHA
DOMAIN			0	EXTRACELLULAR (POTENTIAL).
DOMAIN	88	179	92	CYS-RICH, LECTIN-LIKE.
DOMAIN	180	457	278	OLFACTOMEDIN-LIKE.
DOMAIN	361	491	131	PRO-RICH.
DOMAIN	496	556	61	SER/THR-RICH.
DOMAIN	559	835	277	BAI.
DOMAIN	844	933	90	CYS-RICH.
<u>TRANSMEM</u>	949	969	21	POTENTIAL.
DOMAIN	970	977	8	CYTOPLASMIC (POTENTIAL).
<u>TRANSMEM</u>	978	998	21	POTENTIAL.
DOMAIN	999	1006	8	EXTRACELLULAR (POTENTIAL).
TRANSMEM	1007	1027	21	POTENTIAL.
<u>DOMAIN</u>	1028	1048	21	CYTOPLASMIC (POTENTIAL).
<u>TRANSMEM</u>	1049	1069	21	POTENTIAL.
<u>DOMAIN</u>	1070	1087	18	EXTRACELLULAR (POTENTIAL).
TRANSMEM	1088	1108	21	POTENTIAL.
DOMAIN	1109	1132	24	CYTOPLASMIC (POTENTIAL).
<u>TRANSMEM</u>	1133	1153	21	POTENTIAL.
<u>DOMAIN</u>	1154	1159	6	EXTRACELLULAR (POTENTIAL).
TRANSMEM	1160	1180	21	POTENTIAL.
<u>DOMAIN</u>	1181	1527	347	CYTOPLASMIC (POTENTIAL).
<u>DOMAIN</u>	1460	1463	4	POLY-ALA.
SITE	922	923	2	CLEAVAGE (POTENTIAL).
<u>VARSPLIC</u>	19	86	68	Missing (in isoform CL3AA, isofo

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<u>VARSPLIC</u>	1263	1298	36	GLLNNARDTSVMDTLPLNGNHGN YRETSMGVKLNIAYQIGASEQCQG CL3AB). /FTId=VSP_050432.
<u>VARSPLIC</u>	1299	1527	229	Missing (in isoform CL3BB and i
VARSPLIC	1262	1341	80	EGLLNNARDTSVMDTLPLNGNHG DRGYNHNETALEKKILKELTSNYIP GTMANHLMSNALLRPHGTNNPYN MYNAQEPYRETSMGVKLNIAYQIG isoform CL3BC)./FTId=VSP_05
<u>VARSPLIC</u>	1342	1527	186	Missing (in isoform CL3AC and i

Sequence information

Length: 1527 aa, molecular weight: 169779 Da, CRC64 checksum: A0F1FFC2

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MCPPQLFILM MLLAPVVHGG KHNERHPALA APLRHAEHSP GGPLPPRHLL QQPAAERS
HRGQGPRGTA RGVRGPGAPG AQIAAQAFSR APIPMAVVRR ELSCESYPIE LRCPGTDV
IESANYGRTD DKICDSDPAQ MENIRCYLPD AYKIMSQRCN NRTQCAVVAG PDVFPDPC
TYKYLEVQYE CVPYKVEQKV FLCPGLLKGV YQSEHLFESD HQSGAWCKDP LQASDKIY
PWTPYRTDTL TEYSSKDDFI AGRPTTTYKL PHRVDGTGFV VYDGALFFNK ERTRNIVK
LRTRIKSGEA IIANANYHDT SPYRWGGKSD IDLAVDENGL WVIYATEQNN GKIVISQL
YTLRIEGTWD TAYDKRSASN AFMICGILYV VKSVYEDDDN EATGNKIDYI YNTDOSKD
VDVPFPNSYQ YIAAVDYNPR DNLLYVWNNY HVVKYSLDFG PLDSRSGPVH HGOVSYIS
IHLDSDLERP PVRGISTTGP LGMGSTTTST TLRTTTWNLG RSTTPSLPGR RNRSTSTP
AIEVLDVTTH LPSAASQIPA MEESCEAVEA REIMWFKTRO GOVAKOSCPA GTIGVSTY
LAPDGIWDPQ GPDLSNCSSP WVNHITQKLK SGETAANIAR ELAEOTRNHL NAGDITYS
AMDQLVGLLD VQLRNLTPGG KDSAARSLNK LQKRERSCRA YVQAMVETVN NLLQPQAL
WRDLTTSDQL RAATMLLDTV EESAFVLADN LLKTDIVREN TDNIQLEVAR LSTEGNLE
KFPENTGHGS TIQLSANTLK QNGRNGEIRV AFVLYNNLGP YLSTENASMK LGTEAMST
SVIVNSPVIT AAINKEFSNK VYLADPVVFT VKHIKQSEEN FNPNCSFWSY SKRTMTGY
TQGCRLLTTN KTHTTCSCNH LTNFAVLMAH VEVKHSDAVH DLLLDVITWV GILLSLVC
ICIFTFCFFR GLQSDRNTIH KNLCISLFVA ELLFLIGINR TDQPIACAVF AALLHFFF
AFTWMFLEGV QLYIMLVEVF ESEHSRRKYF YLVGYGMPAL IVAVSAAVDY RSYGTDKV
LRLDTYFIWS FIGPATLIIM LNVIFLGIAL YKMFHHTAIL KPESGCLDNI KSWVIGAI
LCLLGLTWAF GLMYINESTV IMAYLFTIFN SLQGMFIFIF HCVLQKKVRK EYGKCLRT
CSGKSTESSI GSGKTSGSRT PGRYSTGSQS RIRRMWNDTV RKQSESSFIT GDINSSAS
REGLLNNARD TSVMDTLPLN GNHGNSYSIA GGEYLSNCVQ IIDRGYNHNE TALEKKIL
LTSNYIPSYL NNHERSSEQN RNMMNKLVDN LGSGSEDDAI VLDDAASFNH EESLGLEL
EESDAPLLPP RVYSTDNHQP HHYSRRRLPQ DHSESFFPLL TDEHTEDPQS PHRDSLYT
PALAGVPAAD SVTTSTQTEA AAAKGGDAED VYYKSMPNLG SRNHVHPLHA YYQLGRGS
GFIVPPNKDG ASPEGTSKGP AHLVTSL
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